

III. AMENDMENT

i. Introductory Comments

PLEASE ENTER THE FOLLOWING AMENDMENT WITHOUT PREJUDICE OR DISCLAIMER. Applicant reserves the right to file a divisional or continuation application to the originally filed claims.

Please amend the specification as follows:

Please amend the claims as follows:



(ii) Amendment To The Specification:

TABLE 1		
Target Human Chromosome or Chromosomes	Probing Nucleobase Sequence	Seq. ID No.
X	CTT-CAA-AGA-GGT-CCA-CGA	1
X	AGG-GTT-CAA-CTG-TGT-GAC	2
X	GAA-ACT-TCT-GAG-TGA-TGA	3
X	CAG-TCA-TCG-CAG-AAA-ACT	4
X	AGA-TTT-CAC-TGG-AAA-CGG	5
X	GTT-ATG-GGA-AGG-TGA-TCC	6
X	TCG-AGC-CGC-AGA-GTT-TAA	7
X	CTA-TTT-AGC-GGG-CTT-GGA	8
X	TAC-AAG-GGT-GTT-GCA-AAC	9
Y	CCA-TAT-GCA-GTT-ATA-AGT-AGG	10
Y	TAT-TGT-ACC-AAG-CAG-AGT-ACC	11
Y	GGT-ATA-TAT-AAG-ATG-ACA-CAG-GA	12
Y	GTT-AGT-TAT-ATT-GGG-TGA-TAT-GT	13
Y	TCA-CAT-AAT-AGA-CAA-CAT-AC	14
Y	CAG-AAG-AGA-TTG-AAC-CTT	15
Y	GGC-ATA-GCA-CAT-AAC-ATG	16
1	AAT-CGT-CAT-CGA-ATG-AAT	17
1	CAT-TGA-ACA-GAA-TTG-AAT	18
2	GTT-TTC-AGG-GGA-AGA-TAT	19
2	TGT-GCG-CCC-TCA-ACT-AAC	20
2	GAA-GCT-TCA-TTG-GGA-TGT	21
2	CCA-ATA-AAA-GCT-ACA-TAG-A	22
2	GAA-AAA-GTT-TCT-GAC-ATT-GC	23
2	TAG-TTG-AAG-GGC-ACA-TCA	24
2	CAC-AAA-TAA-GAT-TCT-AAG-AAT	25
2	TCA-AAA-GAA-TGC-TTC-AAC-AC	26
3	ATA-ATT-AGA-CCG-GAA-TCA-T	27
3	GCT-GTT-TTC-TAA-AGG-AAA-G	28
3	AAG-ACT-TCA-AAG-AGG-TCC	29
3	TTT-GTC-AAG-AAT-TAT-AAG-AAG	30
3	CAA-GAT-TGC-TTT-TAA-TGG	31
3	TGT-GTA-TCA-ACT-CAC-GGA	32
3	CCT-CAC-AAA-GTA-GAA-ACT	33
3	GAA-AAA-GCA-GTT-ACT-GAG	34
3	TAA-TAA-TTA-GAC-GGA-ATC-AT	35
3	TTA-CAG-GGC-ATT-GAA-GCC	36
3	CAG-TTA-TGA-AGC-AGT-CTC	37
3	CAC-ACC-AGA-AAA-AGC-AGT	38
3	AAG-GGT-AAA-CAC-TGT-GAG	39

3	AGA-CAA-CGA-AAT-ATC-TTC-ATG	40
3	CTA-GCA-GTA-TGA-GGT-CAA	41
3	GCA-GAC-TTC-AGA-AAC-AGA	42
3	GGC-CTC-AAA-GAC-GTT-TAA	43
3	GTG-AAA-GTT-CCA-AGT-GAA	44
3	GAG-TGC-TTT-GAA-GCC-TAC	45
3	GAA-ACA-GCA-GAG-TTG-AAA	46
3	TGC-AGA-GAT-CAC-AAC-GTG	47
3	ACA-AAG-AAT-CAT-TCG-CAG	48
3	AGT-GTT-AGA-AAA-CTG-CTC	49
4	ACA-CGA-TTT-TGG-AAA-CAC	119
4	CGA-AAC-ATC-ACT-GAG-AGT	120
4	GGA-TGA-CAT-ATA-ATA-ACT-AG	121
4	GAA-TTG-AAC-ATT-CAC-TTT-GA	122
4	TAG-CTC-TGA-AGA-TTT-CGT	123
4	GAG-ATG-TTT-CCG-AGA-ATG	124
4	GTG-TAT-TCA-ACT-ACC-AGA	125
4	ACA-TTT-CTG-TTA-CAG-AGC	126
4	ATG-ACG-TAT-AAA-ATC-TAG-AG	127
4	ACG-AAC-ACA-GTT-GAA-CCT	128
4	CTC-ATA-AAA-ACC-AGA-AAG-AG	129
6	CTG-TTC-AGA-GTA-ACA-TGA	50
6	CCG-CTT-GGA-AAT-ACT-ACA	51
6	GAA-ATG-GAA-ATA-TCT-CCC-C	52
6	TCT-AGG-AGG-TCC-AAT-TAT	53
6	GAA-TTC-CCA-AGT-GGA-TAT	54
6	CTG-TAG-GTT-TAG-ATG-AAG	55
6	AAG-GAG-TGT-TTC-CCA-ACT	56
6	GGC-TTC-AAG-GCG-CTC-TAA	57
6	GCA-GAG-ACT-TCA-AAG-TGC	58
6	CAC-ACA-CAC-GGT-GGA-CCA	59
6	CAA-AGG-GAA-TGT-TCC-ATT	60
6	CAC-ATA-GCA-GTG-TTT-GAG	61
6	CTC-AAG-GCG-GTC-CAA-TTA	62
6	GAG-TCG-AAA-TGC-ACA-CAT	63
6	TAC-CAA-GAG-GAA-TGT-TGC	64
7	CAG-TTC-ATA-TGT-GCA-GTG	130
7	GGA-ATA-TCG-TCA-CCT-AAA	131
7	TGG-AGC-AAA-TTG-AAG-CCT	132
7	TGG-AGC-ACA-TTT-ATG-CCT	133
7	TGC-ATT-CTA-CTC-CCA-TAG	134
7	ACA-CTC-TGT-TTC-TAA-AAT-CT	135
7	GCA-GGC-GGA-TAT-TTA-GTA	136
7	AGC-GAT-TTG-ATG-CCA-ACA	137
7	TTG-CAA-ACG-GGG-TTT-CTT	138

7	CTT-TCA-TGC-TAG-ACA-GAA	139
7	CAA-AAA-AGT-TAC-TGA-GAA-C	140
7	AAA-ATG-CCA-CAG-CAA-GAG	141
7	GTT-TGA-AAA-CAC-ACT-GTT-TG	142
7	ATA-TGG-ACC-TGT-TTG-AGG	143
7	CAT-TGA-ATG-CTA-GAC-GGA	144
8	ACG-GGA-TGC-AAT-ATA-AAA	65
8	TGA-AGA-TTC-TGC-ATA-CGG	66
8	AAG-GTT-TGT-ACT-GAC-AGA	67
8	CTG-AAC-TAT-GGT-GAA-AAA	68
8	ACT-AAC-TGT-GCT-GAA-CAT	69
8	CCC-ATG-AAT-GCG-AGA-TAG	70
9	ATG-ATG-AAA-AAG-GTA-ATA-E	145
9	CAT-TCT-CAG-AAC-TGT-TTG-E	146
10	AAC-TGA-ACG-CAC-AGA-TGA	71
10	GGC-TAA-TCT-TTG-AAA-TTG-AAA	72
10	AGG-TGG-ATA-ATT-GGC-CCT	73
10	TGA-AGT-CCA-AAA-AAG-CAC	74
10	CTT-AGA-CAT-GGA-AAT-ATC	75
10	AAG-GGG-TCT-AAC-TAA-TCA	76
10	GTA-GTT-GTT-GAG-AAT-GAT	77
11	AAC-TTC-CCA-GAA-CTA-CAC	78
11	ATT-CTT-GAA-ATG-GAA-CAC	79
11	CTG-TGA-TTG-CTG-ATT-TGG	80
11	GTC-ATC-ACA-GGA-AAC-ATT	81
11	GAA-ATT-TCC-TGT-TGA-CAG-A	82
11	GTT-TGA-AAG-CTG-AAC-TAT-G	83
12	TCC-TGT-AAT-GTT-CGA-CAG	84
12	TCA-TAG-AAC-GCT-AGA-AAG	85
12	ACC-TTT-CTT-TTG-ATG-AAG-GA	86
12	CAA-ATA-TCA-CAA-AAA-GAG-GG	87
12	GAG-TTG-AAT-AGA-GGC-AAC	88
12	GGC-CAA-ATG-TAG-AAA-AGG	89
12	GCG-TTC-AAC-TCA-AGG-TGT	90
12	TGT-CCT-TTA-GAC-AGA-GCA	91
12	TGA-GAC-CAA-ATG-TAC-AAA-AG	92
12	GAA-TAC-TGA-GTA-AGT-TCT-TTG	93
12	AAC-TGC-ACA-AAT-AGG-GTG	94
12	TGG-AGA-CAC-TGT-GTT-TGT	95
12	CCA-GTT-GGA-GAT-TTC-AAT	96
16	GAA-GCC-TGC-CAG-TGG-ATA	97
16	TAC-AGC-ATT-CTG-GAA-ACC	98
16	CCA-GAC-ACT-GCG-TAG-TGA	99
16	ATA-TAA-TGC-TAG-AGG-GAG	100
16	AAA-AAC-AAG-ACA-AAC-TCG	101

17	ATT-TCA-GCT-GAC-TAA-ACA	102
17	AAC-GAA-TTA-TGG-TCA-CAT	103
17	GGT-GAC-GAC-TGA-GTT-TAA	104
17	TTT-GGA-CCA-CTC-TGT-GGC	105
17	AAC-GGG-ATA-ACT-GCA-CCT	106
17	TTT-GTG-GTT-TGT-GGT-GGA	107
17	AGG-GAA-TAG-CTT-CAT-AGA	108
17	ATC-ACG-AAG-AAG-GTT-CTG	109
17	CCG-AAG-ATG-TCT-TTG-GAA	110
17	AAA-GAG-GTC-TAC-ATG-TCC	111
18	TTC-CCG-TAA-CAA-CTA-TGC	112
18	TCC-CGT-AAC-AAC-TAG-GCA	113
18	AAA-AGG-AGT-GAT-CCA-ACC	114
18	TCC-CTT-TGG-TAG-AGC-AGG	115
18	ATT-TGA-GAT-GTG-TGT-ACT-CA	116
18	GCA-CTT-ACC-GGC-CTA-AG	117
18	CTC-AGA-AAC-TTA-CTC-GTG	118
20	ACA-GAA-CTA-AAC-CAT-CGT	147
20	TAG-GCC-AGC-TTG-GAG-GAT	148
20	CTA-GCT-GGG-AGG-ATT-T	149
20	TGT-GCC-TCA-ACT-GAC-A-E	150
20	TGC-TTT-GGG-ATG-TTT-CAA	151
20	GCA-ATG-TCA-GAA-CTT-TTT-TC	152
13/21	CCG-AAA-GAA-ATT-TGT-GGG	153
13/21	GAA-CAT-GGC-CTT-TCA-TAG	154
13/21	TCA-AGG-CGA-TCG-AAA-TGT	155
13/21	GAG-ACA-CAT-ATC-ACC-AAC	156
13/21	CAG-AAA-TTT-CTT-TCG-GAT-A	157
13/21	GAA-CAT-GGC-CTT-TCA-TAG	158
13/21	AGC-CAA-AGG-AGT-TGA-ACA	159